

## Anchor-Loc<sub>2</sub> Modules

Anchor-Loc<sub>2</sub><sup>®</sup> ceramic fiber modules extend the successful performance of standard Anchor-Loc folded modules to a product form featuring laminated fiber blanket construction. This product combines advancements in fiber chemistry, manufacturing technology, and attachment hardware design to provide an economical lining system for a wide range of heat processing vessels.

The Fibermass<sup>®</sup> manufacturing technique used to fabricate Anchor-Loc<sub>2</sub> modules bonds layers of refractory ceramic fiber blankets into a strong pliable fiber block. A proprietary fiber treatment decreases fiber dusting and irritation while increasing block flexibility, making the module easy to compress into place. Modules are available in two temperature grades based on construction from Durablanket<sup>®</sup> 1400 and regular Durablanket. The availability of standard or high density blocks results in a product that meets a wide range of application needs.

In all Anchor-Loc<sub>2</sub> modules, Fibermass blocks are secured to the metallic module anchor with a pair of stainless steel support tubes.

### Weld-Loc<sub>2</sub><sup>®</sup> Modules

The standard Anchor-Loc<sub>2</sub> modules are supplied with the maximum design flexibility and high installation rates.

During installation, the special Weld-Loc stud assembly is fused to the furnace casing and a hex nut is torqued on the weld stud, drawing the module to the casting plate.

Advantages that are offered by the Weld-Loc attachment system include:

- High installation speed
- Ease and simplicity of installation
- Random placement of modules on the casting
- Positive torque test of the weld



### Thread Loc<sub>2</sub><sup>®</sup> Modules

To meet customer specifications or the special design requirements of furnace builders, refineries or petrochemical plants, Anchor-Loc<sub>2</sub> modules are available on special order with the prewelded Thread Loc<sub>2</sub><sup>®</sup> attachment system. The Thread Loc<sub>2</sub> attachment system features a fully threaded weld stud and nut to permit block installation in a pre-engineered stud pattern. The Thread Loc<sub>2</sub> attachment system for Anchor-Loc<sub>2</sub> modules offer several advantages:

- Compatibility with mastic coatings, backup insulation, and foil vapour barriers
- Module design compensates for variations in stud placement
- Access to the welded fastener for full testing before the module is installed

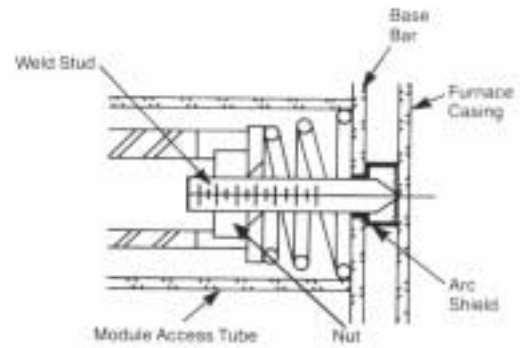
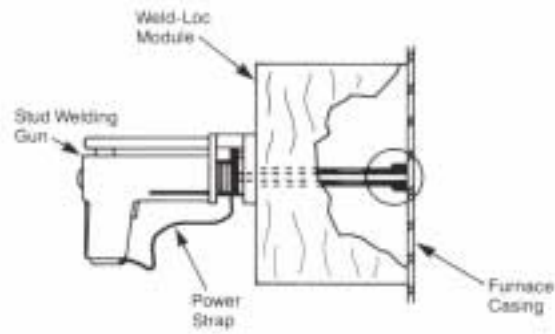
### Power-Loc<sub>2</sub><sup>®</sup> Modules

This reliable system provides the advantages of quick, reliable module installation with minimal installation equipment set-up in the MRO (maintenance, repair, and overhaul) market segment

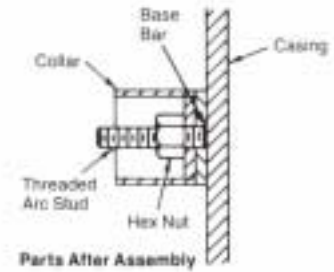
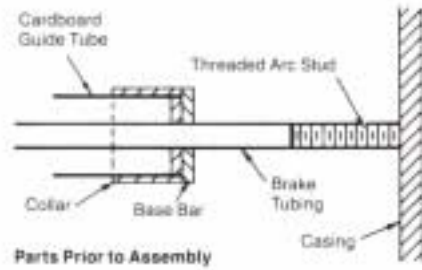
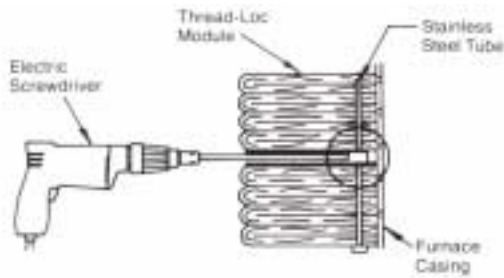
A hardened steel pin mechanically secures each Power-Loc<sub>2</sub> module to the steel casing plate. The anchor pin is installed with a special Hilti<sup>®</sup> powder actuated fastening tool and powder booster. Advantages that are offered by the Power-Loc<sub>2</sub> modules include:

- High installation speed
- Casting preparation is eliminated
- Permits random placement of modules on the casing
- Ease and simplicity of installation
- Positive mechanical/attachment modules to the casing plate
- Setup time is reduced

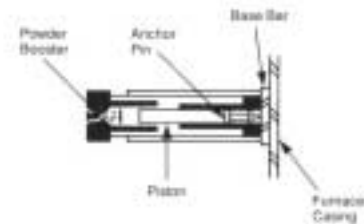
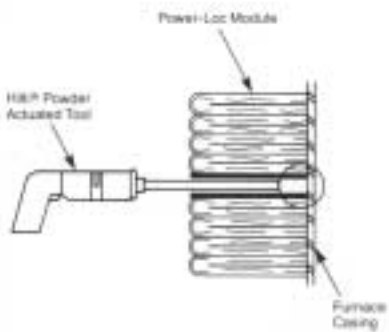
### A. Weld-Loc<sup>®</sup><sub>2</sub> Attachment System



### B. Thread Loc<sub>2</sub> Attachment System



### c. Power-Loc<sup>®</sup><sub>2</sub> Attachment System



### **Chemical Analysis**

	<b>Standard Anchor-Loc<sub>2</sub></b>	<b>1400 Grade Anchor-Loc<sub>2</sub></b>
Al <sub>2</sub> O <sub>3</sub>	43% - 47%	29% - 31%
SiO <sub>2</sub>	53% - 57%	53% - 55%
ZrO <sub>2</sub>	-	15% - 17%
Na <sub>2</sub> O	<0.5%	-

### **Product Advantages**

Anchor-Loc<sub>2</sub> modules offer the same advantages as other Fiberwall furnace lining when compared to refractory construction.

They are:

- Faster temperature cycling
- Lower heat storage
- Lower fuel costs
- Increased productivity
- Lower installed cost
- Easier repairs
- Resistance to thermal shock

### **Availability**

Standard Anchor-Loc<sub>2</sub> modules are 305mm x 305mm x 305mm. Modules in different dimensions are available, subject to order. Standard Anchor-Loc<sub>2</sub> Modules are available in two density grades, 128 kg/m<sup>3</sup> and 160 kg/m<sup>3</sup>. 1400 Grade Anchor-Loc<sub>2</sub> Modules are also available in two density grades, 160 kg/m<sup>3</sup>, and 192kg/m<sup>3</sup>.

### **Typical Product Properties**

	<b>Standard Anchor-Loc<sub>2</sub></b>	<b>1400 Grade Anchor-Loc<sub>2</sub></b>
Temperature Grade	1260°C	1427°C
Rec. Operating Temperature	1149°C	1343°C

### **Applications**

- Stress relieving furnaces
- Annealing furnaces
- Car bottom heat treating furnaces
- Reheat furnaces
- Furnace, kiln and boiler linings
- Incineration equipment and stack linings
- Soaking pit covers
- Ladle covers
- Ladle preheaters
- Forge furnaces